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Following this, a fine series of glacial forms were seen; a kame terrace, which was the subject of a talk by Professor Goldthwait; the Great Esker; a well-marked and interesting moraine; and a great variety of kames. In addition, a delta terrace which was formed by a tributary of Lake Bascom and a broad high terrace on the old shore line of this same lake were observed. The scars of the Greylock landslides of August, 1901, were seen from the car. Noonning was taken at Williamstown where the members of the party enjoyed the hospitality of Williams College and were the guests of the officers of the college at a dinner served in the new College Commons.

In the afternoon, the party visited the natural bridge of the Hoosac mountains and studied the transition between the marble of the Natural Bridge quarry and the calcareous mica schists at the foot of the mountain.

It is just to add that the pleasures of the trip were enhanced by delightful weather and by the gorgeous spectacle of the mountains arrayed in autumnal colors.

ROBERT M. BROWN

WORCESTER, MASS.

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*WISCONSIN GEOLOGICAL AND NATURAL  
HISTORY SURVEY*

THE legislature of 1909 appropriated \$30,000 annually for the use of this survey. Of this sum \$10,000 is a permanent appropriation, which the survey has received for several years. An appropriation of \$10,000 for two years, chiefly for the use of the highway division, was repeated and a new appropriation of \$10,000 annually for two years was granted for the establishment of a soil survey. The commissioners of the survey have appointed William O. Hotchkiss, formerly economic geologist of the survey, to the position of state geologist, and have placed the geological work of the survey under his immediate charge. For the present a considerable part of Mr. Hotchkiss's time is being given to the highway department, which has been under his direction.

The last legislature appointed a special committee to make suitable investigations and

draw a bill providing for state aid for roads. This committee is studying the question of state aid along lines suggested by Mr. Hotchkiss and is requiring much service from him. The regular road and bridge work of the highway division of the survey has consisted in aiding towns and counties to spend more efficiently the taxes they raise for highway purposes. This has been done by bringing more business-like methods into use, and by making careful surveys, designs and estimates. The assistance thus given to local officers has been greatly appreciated by them, as it has given them technical advice and trained supervision. This work is carried on by A. R. Hirst, M. W. Torkelson and H. J. Kuelling.

A report on the peat resources of the state is in preparation by F. W. Huels, who has been working under Mr. Hotchkiss's direction.

Mr. Hotchkiss and Mr. F. T. Thwaites have been compiling a new geological map of the state, which will be issued in connection with a bulletin on the general geology of the state.

E. H. J. Lorenz has been employed to make a physiographic model of the state, under the direction of Mr. Hotchkiss and Mr. Thwaites. This model is on a scale of seven miles to the inch and will show in a graphic manner the various topographic forms. It is planned to distribute copies of this model to the various educational institutions of the state.

The natural history division of the survey has continued its work under the immediate charge of the director, E. A. Birge and the biologist, Chancey Juday. During the summer the field work for a forthcoming report on the dissolved gases and plankton of the Wisconsin lakes has been completed and the report will very shortly be ready for the press. This work has been carried on in cooperation with the U. S. Bureau of Fisheries and with financial assistance from it.

The work on the fishes of the state has been prosecuted under the general charge of George Wagner. A careful study is being made of the distribution, habits and food of the cisco of Lake Geneva. H. H. T. Jackson has spent a large part of the summer in collecting the

various species of whitefish from lakes in the northern part of the state. This collection was made in order to study the local distribution of the local species and varieties of this group of fish.

The most important new work of the survey, namely, the investigation of the soils of the state, is carried on by the Geological and Natural History Survey, cooperating with the college of agriculture and the bureau of soils of the federal government. This survey is under the general direction of Professor A. R. Whitson, of the college of agriculture. In the developed portions of the state a detailed survey is being made, the counties selected this year being Iowa, Waukesha, Waushara and a portion of Bayfield. Engaged in the field work in these areas are G. B. Jones, P. O. Wood, G. B. Maynadier, J. W. Nelson and Clarence Lounsbury from the bureau of soils, and LeRoy Schoenmann, A. H. Meyer, A. H. Kuhlman and T. J. Dunnewald from the survey and the college of agriculture.

In the undeveloped portions of the state a reconnaissance survey is being made. This is in immediate charge of Samuel Weidman, geologist on the survey, assisted by W. S. Smith, of the bureau of soils, E. B. Spraker and E. B. Hall, of the survey, and F. L. Musback, of the college of agriculture. Dr. Weidman is completing the work carried on for some years in several counties of the northwestern portion of the state, and also mapping Marinette County, in the northeastern part of the state. It is expected that the field work in all these areas will be completed during the present season.

#### SCIENTIFIC NOTES AND NEWS

At the recent inauguration of Dr. E. F. Nichols as president of Dartmouth College, honorary degrees were conferred on a number of college presidents, including a doctorate of laws on Dr. C. R. Van Hise, president of the University of Wisconsin, and a doctorate of science on Dr. Richard C. Maclaurin, of the Massachusetts Institute of Technology.

On the occasion of the inauguration of Dr. E. B. Bryan as president of Colgate Univer-

sity, the honorary degree of doctor of science was conferred on Dr. John M. Clarke, state geologist of New York, and on Dr. F. C. Perry, professor of mathematics at Williams College.

Dr. M. TREUB, has retired from the directorship of the Botanical Garden at Buitenzorg.

Dr. EMIL ROSENBERG has retired from the active duties of the chair of anatomy at Utrecht.

Dr. THEODOR WEBER, emeritus professor of medicine at Halle, has celebrated his eightieth birthday.

Mr. JAMES BRITTEN has retired from the botanical department of the British Museum after thirty-eight years of service.

THE Rumford committee of the American Academy of Arts and Sciences has made an additional grant of \$300 to Professor L. R. Ingersoll, of the University of Wisconsin, for the continuation of his research on the optical constants of metals.

THE Paris Academy of Medicine has awarded a prize of £160 to M. W. Haffkine for his work on inoculation against cholera.

IN appreciation of his work in the Pennsylvania State Department of Health, Dr. Samuel G. Dixon, state health commissioner, was presented with a silver loving cup by the county medical inspectors of the state and chiefs of the state tuberculosis dispensaries, at a meeting held in Philadelphia on October 5.

SIR THOMAS ELLIOTT, secretary to the British Board of Agriculture and Fisheries, has been nominated by the French government to be a Companion of the Order "du Mérite Agricole."

A GOLD medal has been presented to Dr. Oswaldo Cruz in recognition of his services in extirpating yellow fever in Rio de Janeiro.

Dr. L. KARPINSKI, of the University of Michigan, is spending the year at Columbia University, working on the history of mathematics.

THE magnetic survey yacht, *Carnegie*, arrived at St. John's, N. F., on September 26